code__of__federal__regulations/ibr__locations.html.

(b) The materials approved for incorporation by reference in this subpart, and the sections affected are as follows:

UNDERWRITERS LABORATORIES (UL)

Underwriters Laboratories, Inc., P.O. Box 13995, Research Triangle Park, NC 27709–3995 (Phone (919) 549–1400; Facsimile: (919) 549–1842).

UL 1191, Standards for Components for Personal Flotation Devices, May 16, 1995—164.013–3; 160.013–5.

1(c) *Copies on file.* Copies of the specifications and letter of acceptance shall be kept on file by the manufacturer.

[CGD 95–028, 62 FR 51216, Sept. 30, 1997, as amended at 69 FR 18803, Apr. 9, 2004; USCG–2009–0702, 74 FR 49238, Sept. 25, 2009]

§ 164.013–3 Material properties and workmanship.

(a) *General.* The unicellular polyethylene foam shall be all new material complying with the requirements outlined in this specification. Unicellular polyethylene foam must comply with the requirements of UL 1191, sections 24, 25, and 26 and its assigned Use Code. Thickness tolerances of the foam must permit the manufacture of PFDs complying with their required buoyancy tolerances.

(b) *Use Codes 4BC, 4H.* Each foam which has a C-factor of at least 94 according to UL 1191 may be assigned Use Codes 4BC and 4H.

(c) *Use Codes 2, 3, 5R.* Each foam which has a V-factor of at least 85 according to UL 1191 may be assigned Use Codes 2, 3, 5R (recreational use applications).

§ 164.013–4 Samples submitted for acceptance.

Application samples. A product sample submitted for acceptance as required by § 164.019–7(c)(4) must consist of at least one square foot by the thickness of foam produced.

§ 164.013–5 Acceptance tests.

Manufacturers shall ensure that the performance and identification tests described in UL 1191, as appropriate, are performed on a minimum of five samples in each of the lightest and darkest colors submitted for acceptance by a recognized laboratory accepted under § 164.019.

§ 164.013–6 Production tests, inspections, and marking.

Manufacturers shall provide in-plant quality control of polyethylene foam in accordance with the requirements of § 164.019–13 and any requirements of the recognized laboratory. The manufacturer of the foam has primary responsibility for quality control over the production of the foam.

§ 164.013–7 Marking.

(a) *General.* The manufacturer must ensure that each shipping label, and each unit of put-up, is permanently and clearly marked in a color which contrasts with the color of the surface on which the marking is applied. Each label must be marked with—

(1) The manufacturer's or supplier's name, trade name, or symbol;

(2) The unique style, part, or model number of the material;

(3) The thickness of the material;

(4) The lot number of the material; and

(5) The product Use Code or Codes.

(b) Each unit of put-up must be marked with the appropriate recognized laboratory's certification marking(s).

Subpart 164.015—Plastic Foam, Unicellular, Buoyant, Sheet and Molded Shape

SOURCE: CGFR 65–37, 30 FR 11593, Sept. 10, 1965 unless otherwise noted.

§ 164.015–1 Applicable specifications and standards.

(a) *Specifications.* The following specification and standard, of the issue in effect on the date the plastic foam material is manufactured, form a part of this subpart:

(1) Military specification:

MIL-F-859—Fuel Oil, Boiler.

(2) Federal specification:

C-C-91—Candle illuminating.

(3) Federal standard:

Standard 601—Rubber: Sampling and Testing.

(4) ASTM

D4986–98, Standard Test Method for Horizontal Burning Characteristics of Cellular Polymeric Materials.

(b) *Copies on file.* Copies of the specifications and standards referred to in this section shall be kept on file by the plastic foam manufacturer with this subpart.

(1) The Federal Specification and the Federal Standard may be purchased from the Business Service Center, General Services Administration, Washington, DC, 20407.

(2) The Military Specification may be obtained from the Commanding Officer, Naval Supply Depot, 5801 Tabor Avenue, Philadelphia, Pa. 19120.

(3) The A.S.T.M. Standard may be purchased from the American Society for Testing Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959.

[CGFR 65–37, 30 FR 11593, Sept. 10, 1965, as amended by CGFR 65–64, 31 FR 563 Jan. 18, 1966; USCG–1999–5151, 64 FR 67186, Dec. 1, 1999]

§ 164.015–2 Types.

(a) Unicellular expanded polyvinyl chloride-acetate copolymer or synthetic rubber modified polyvinyl chloride, polymer or copolymer plastic foam shall be of three types as follows:

Type A—for life preservers, buoyant vests or buoyant cushions.

Type B—for buoyant vests or buoyant cushions.

Type C—for ring life buoys.

(b) [Reserved]

§ 164.015–3 Material and workmanship.

(a) The unicellular plastic foam shall be all new material complying with the requirements of this specification. The results of the tests described in § 164.015–4 shall yield property values within the limits shown in Table 164.015–4(a).

(b) The unicellular plastic foam shall be produced in sheet stock or molded shapes.

§ 164.015–4 Inspections and tests.

(a) *General.* Unicellular plastic foam to be used in a finished product subject to inspection by the Coast Guard also shall be subject to inspection at the plant where the foam is manufactured. The manufacturer of the foam has primary responsibility for quality control over the production of the foam. A marine inspector shall be admitted to any place in the factory where production or partial processing of the foam takes place, and he may take samples of the foam or other materials for further inspections or tests. The manufacturer shall provide a suitable place and the apparatus necessary for the performance of certain tests to be witnessed by the marine inspector, the results of which shall comply with Table 164.015–4(a). Unless otherwise specified, all tests shall be conducted at a temperature of 21° ±3 °C. (70° ±5 °F.) The properties listed in Table 164.015–4(a) shall be determined on specimens of sheet foam or molded shapes.

TABLE 164.015–4(a)

Properties	Test method	Units	Type A	Type B	Type C
Density (maximum)	164.015–4(b)	Pounds/feet^3	5.0	5.0	8.5
Buoyancy in fresh water (minimum)	164.015–4(c)	Pounds/feet^3	54.0	54.0	52.0
Volume loss on heat aging (maximum).	164.015–4(d)	Percent	5.0	5.0	4.0
Compression deflection at 25 percent.	164.015–4(e)	P.s.i.	3.0 max.	3.0 max.	7.0 min.
Compression set (maximum)	164.015–4(f)	Percent	24	24	20
Fire retardance (maximum)	164.015–4(g)(1)	Seconds	2	.....	30
		Inches	1	.....	3
	164.015–4(g)(2)	Inches per minute	.....	4	.....
Tensile strength (minimum)	164.015–4(h)	P.s.i.	30	20	60